



PATENT
BHG&L Case 659/928

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Paul T. Van Gompel et al.	:	Confirmation No. 2410
		:	
Serial No.:	10/005,522	:	K-C Docket 9733.5
		:	
Filed:	December 3, 2001	:	Group Art Unit 3761
		:	
For:	SANITARY NAPKIN WITH GARMENT ATTACHMENT PANELS	:	Examiners Dennis Ruhl and Weilun Lo
		:	

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DECLARATION OF LORI S. SCHUTKOSKE UNDER 37 CFR 1.131

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

LORI S. SCHUTKOSKE declares as follows:

1. I am a joint inventor of the invention described and claimed in this Application Serial No. 10/005,522, and a joint applicant for this Application. My maiden name is Schramm, and I was formerly known as Lori S. Schramm. On November 10, 1990, I was married and changed my last name to Schutkoske. I was employed by Kimberly-Clark Corporation, the parent corporation of the assignee of this Application, Kimberly-Clark Worldwide, Inc., at the time that our original Application, Serial No. 07/954,524, was filed; but I have since then left the employ of Kimberly-Clark.

2. On information and belief, I state that our original Application, Serial No. 07/954,524, was filed September 30, 1992 (K-C Docket No. 9733), by Paul T. Van Gompel, Julie T. Bocker, me and Betsy C. Westlake, and was thereafter abandoned. On information and belief, the present Serial No. 10/005,522, was filed December 3, 2001 (K-C Docket No. 9733.5), in the names of Paul T. Van Gompel, Julie T. Bocker, me and Betsy C. Westlake; claims

domestic priority under 35 USC 120 of our original Application, Serial No. 07/954,524, filed September 30, 1992; and had the same specification and drawings when filed as Application Serial No. 07/954,524.

3. I understand that this Application Serial No. 10/005,522 has an effective filing date of September 30, 1992, the date that Application Serial No. 07/954,524 was filed.

4. My attention has been called to Menard U.S. Patent 6,231,554, issued May 15, 2001, but claiming a U.S. effective filing date of September 27, 1991, hereinafter "Menard".

5. It is my understanding that Claims 35-44 of our Application Serial No. 10/005,522 have been rejected under 35 USC 103(a) as unpatentable over Menard and another U.S. Patent 4,608,047 to Mattingly; that, as discussed above in Paragraphs 2 and 3, the effective date of our Application is September 30, 1992; and that the effective date of Menard as a reference against our application is its filing date, September 27, 1991.

6. It is my understanding that Menard can be antedated by declarations under 37 CFR 1.131, showing facts from which it may be concluded that either (a) we reduced our invention to practice in the United States prior to September 27, 1991, the effective date of Menard as a reference, or (b) we conceived our invention in the United States prior to September 27, 1991, and continued our activity in the United States with respect to the invention with diligence to a subsequent reduction to practice of the invention in the United States or to the filing of our Application Serial No. 07/954,524, on September 30, 1992. Such facts are shown by Kimberly-Clark Invention Disclosure No. 9733, a redacted copy of which is presented herewith as Exhibit A, and forms part of this declaration. I therefore make this Declaration Under 37 CFR 1.131, to antedate Menard as a reference against our Application, and to antedate any additional references with effective dates after November 10, 1990, that may be cited.

7. Invention Disclosure No. 9733, a redacted copy of which is presented herewith as Exhibit A, was completed and submitted prior to November 10, 1990, by Paul T. Van Gompel,

Julie T. Bocker, and me. Our Application Serial No. 07/954,524 contained contributions by Betsy C. Westlake, and she was therefore included as an inventor, even though she was not part of the original conception on which Invention Disclosure No. 9733 was based, and did not sign Invention Disclosure No. 9733.

8. The present invention relates to a sanitary napkin with an elongated absorbent pad and a pair of garment attachment flexible flaps or panels formed of separate material pieces and attached to the pad, the flaps being foldable inwardly of the attachment area, extending inwardly over the absorbent pad on the side remote from the wearer, and being folded around leg edges of underpants when the article is in use, so as to protect the underpants against soiling. Further details of the invention are given in Claims 35-44 pending as of December 3, 2001, the filing date of this Application, a listing of which is presented herewith as Exhibit B, and forms part of this declaration.

9. Invention Disclosure No. 9733, a redacted copy of which is presented herewith as Exhibit A, shows that prior to November 10, 1990, (a) our invention as described and now claimed in this Application was conceived, in the United States; and (b) prototypes of the invention were made and successfully tested, in the United States.

10. The testing referred to in Paragraph 9, above, was such as to show that the invention appeared to be operable and useful for the purpose intended, but the testing may not have been carried out with statistically significant numbers of prototypes prior to November 10, 1990, sufficient for the testing to prove with mathematical certainty that the favorable observations were the result of the invention. Testing was continued with tests conducted with larger numbers of prototypes.

11. Conception of our invention, production of prototypes of our invention, and preliminary testing of our invention, all as described and now claimed in this Application, are shown by Invention Disclosure No. 9733. All activities with respect to our invention that are reported in this Declaration occurred in the United States, prior to November 10, 1990.

12. The original Invention Disclosure No. 9733 was submitted by Paul T. Van Gompel, Julie T. Brocker and me to the Patent Department of Kimberly-Clark Corporation. The original Invention Disclosure No. 9733 consists of 14 pages on 12 sheets, which pages were originally unnumbered. In the copy of Invention Disclosure No. 9733 submitted herewith as Exhibit A, the 14 pages have been numbered as pages 1 through 14 for ease of reference in this Declaration. The first two sheets of the invention disclosure form (pages 1-4) contain typed material on both sides of the sheets. The third sheet contains typed material on one side of the sheet (page 5), and the back of the sheet is blank. The remaining 9 sheets (pages 6-14) contain drawings labeled "Figure 1" through "Figure 7", "Figure 8a" and "Figure 8b", respectively, and the backs of the sheets are blank. Each of the 12 sheets (on the bottom of the back of the first two sheets, pages 2 and 4; and on the bottom of the remaining 10 sheets, pages 5-14) was signed by Paul T. Van Gompel, Julie T. Brocker, and me, and dated by each of us prior to November 10, 1990. Each of the 12 sheets of the original Invention Disclosure No. 9733 is also signed by our manager M.E. Bolick and two corroborating witnesses, and dated again by each of M.E. Bolick and the two corroborating witnesses, all also prior to November 10, 1990. Page 1 of Invention Disclosure No. 9733 is also endorsed with the disclosure number "9733" (which number was later used as the Kimberly-Clark Case Number of our original Application as filed on September 30, 1992), and "Rec by JH a 14 page disclosure with no attachments on [the date of receipt of the completed and signed invention disclosure form, a date prior to November 10, 1990]". Each of the 13 remaining pages of Invention Disclosure No. 9733 is also endorsed "Rec by JH as part of 9733 on [the same date of receipt of the invention disclosure form, prior to November 10, 1990]". Each of the 14 pages of Invention Disclosure No. 9733 is also date stamped with the same date of receipt of the invention disclosure form, prior to November 10, 1990.

13. Page 2 of the original Invention Disclosure No. 9733 states as follows:

"3. I (We) first conceived the above idea on [date] .

"4. I (We) first disclosed the above idea to others on [date] .

"5. ...

“6. The first written description of the above idea is in the form of Patent Notebook P-2767 dated [date] now located KC South.

“7. The first sketch or drawing of the above idea was made [date] and is now located Patent Notebook P-2767. ...

“8. The first sample illustrating the above idea was made [date] and is now located KC South.

“9. The above idea was first actually tried on [date]. How tried XT P89302-00. Five pads were evaluated by five subjects in actual use

“10.”

Page 5 of the original invention disclosure form states that “One [prior art] search was completed on [date].”

14. The dates referred to in Paragraph 13, above, as “[date]”, have been mechanically blocked out for the purpose of making the redacted copies which are submitted herewith as Exhibit A. In each case, the dates blocked out are prior to November 10, 1990.

15. Our original Application Serial No. 07/954,524, filed September 30, 1992, was based on Invention Disclosure No. 9733, referred to above, and an additional Invention Disclosure.

16. In the copy of Invention Disclosure No. 9733 which is submitted herewith as Exhibit A, attention is directed to page 1, paragraph 2.a); page 3, discussion of Figures 3 and 4; and Figures 3 and 4 on pages 8 and 9. Prior art is discussed and illustrated on page 1, paragraphs 2.b) and 2.c); and on pages 5-7. Further details and variations are discussed and illustrated on page 3, discussion of Figures 5 and 6; page 4; and Figures 5-7, 8a and 8b, pages 10-14.

17. I further declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and I am warned that willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. 1001) and may jeopardize the validity of the application or any patent issuing thereon.

Date signed: Mar. 17, 2003 2003


LORI S. SCHUTKOSKE

Inventor:
Please complete 1 copy of this form. A signed original and one copy to Kimberly-Clark Corporation, Patent Department, Neenah, Wisconsin. Answer every question. Both corroborators must understand the invention. All inventors and both corroborators must sign and date, in ink, the reverse side of this form and each additional sheet submitted with it. Form KC 24991 is recommended when additional sheets are required.

DISCLOSURE NO. 9733
DEPARTMENT _____
RECOMMENDED ATTY. _____

Invention Disclosure

KEY WORDS: Panels, napkin, garment, form-fitting, panty, elastic

1. Title A Form-Fitting Pad With Garment Attachment Panels (GAP)

2. Description: (Sign and date each page. Attach pertinent drawings, photographs and the like.)

a) Summary (Should disclose invention in general, nontechnical terms.)

This invention discloses a feminine napkin that incorporates a garment attachment panel (GAP) that pulls the panty elastic underneath the absorbent. Forcing the panty elastic underneath the absorbent allows the absorbent sides to fold and fit into the groin and thighs of the wearer. The GAP also protects the panty elastic from side stain or smear by preventing the elastic from over-lapping the side edges of the absorbent core. The GAP also forces the absorbent to buckle in a convexed shape which improves the fit to the body. This invention relates to feminine napkins, but the concept can be applied to Infant Care and adult incontinent garments.

EXHIBIT A

b) Detailed description including specific embodiments and applicable alternatives, ranges, and process/apparatus variations.

Figure 1 is a cross-sectional view of a conventional rectangular flat feminine pad during use. The drawing illustrates the folding or bunching behavior of the absorbent core during use. It also illustrates how the panty leg elastic folds over the edge of the absorbent and increases the potential of staining or smearing the underwear.

Figure 2 is a cross-sectional view of a conventional winged pad during use. In this winged design, the panty elastic is wrapped with the outwardly extended panels from the pad. Ideally, the leg elastic of the panty then forces the extended panel into the groin of the body and thereby provides the containment wall. In actual use, the leg elastic is overlapped with the extended panels but rather than fit into the groin, the panel composite is bunched next to the absorbent core and in many instances, the panel folds over on top of the absorbent. (Continued)

c) How does the invention distinguish from what has been done in the past and what advantages are obtained? Identify related work done by others (patents, journal articles, etc.). Identify other related disclosures of which you may have knowledge, or other work within Kimberly-Clark Corporation in the same area.

U.S. Patent 4,589,876 Sanitary Napkin, Van Tilberg discloses a feminine napkin that incorporates a pair of flexible side flaps. The said flaps are designed to extend upwardly to the user's groin and cover the laterally outwardly facing surface areas of the user's labia majoria. The distal portions of the flaps extend downwardly, from said user's groin and are disposed intermediate edge portions of said crotch region of user's panties. What we are disclosing does not allow the panty elastic to pull the panty panels into the groin. The disclosed invention maintains the panty elastic under the absorbent and allows the pad to fit to the body. (Continued on attached sheet.)

Rec'd by Jh a 14 page disclosure with no attachments re

3. I (We) first conceived the above on _____.
4. I (We) first disclosed the above idea to others on _____.
5. The person(s) to whom the above idea was first disclosed are: Corrine A. Sukiennik.
6. The first written description of the above idea is in the form of Patent Notebook P-2767
dated _____ now located KC South
7. The first sketch or drawing of the above idea was made _____ and is now located Patent Notebook P-2767. Its number is N.A.
8. The first sample illustrating the above idea was made _____ and is now located KC South. Sample number _____.
9. The above idea was first actually tried on _____. How tried XT P89302-00. Five pads were evaluated by five subjects in actual use
10. Consumer use testing is planned to begin on or about NA.
11. Consumer use testing was carried out on NA. Describe testing NA
12. On NA the idea was first used in or to produce a product which was sold or offered for sale.
How used NA
13. The idea was first disclosed outside Kimberly-Clark Corporation NA. To Whom: NA
Under confidential Disclosure Agreement? Yes ☐ No ☐
14. Is commercial use imminent? Yes ☐ No ☒

Inventor	<u>Paul T. Van Gompel</u> Signature <u>Paul T. Van Gompel</u>	<u>Fern Case / K.C. South</u> Dept./Location	Signed _____ Month Day Year
Inventor	<u>Julie T. Brocker</u> Signature <u>Julie T. Brocker</u>	<u>Fern Case / K.C. South</u> Dept./Location	Signed _____ Month Day Year
Inventor	<u>Lori S. Schramm</u> Signature <u>Lori S. Schramm</u>	<u>Fern Case / K.C. South</u> Dept./Location	Signed _____ Month Day Year
Manager Review	<u>M. E. Bolick</u> Signature <u>M. E. Bolick</u>	<u>Fern Case / K.C. S</u> Dept./Location	Signed _____ Month Day Year

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.

Corroborator	<u>David R. King</u> Signature <u>David R. King</u>	<u>Fern Case / K.C. South</u> Dept./Location	Signed _____ Month Day Year
Corroborator	<u>Thomas Cantler</u> Signature <u>Thomas Cantler</u>	<u>Fern Case / K.C. South</u> Dept./Location	Signed _____ Month Day Year

Figure 3 is a cross-sectional view of a GAP pad during use whereby the raised folded edges of the absorbent fit into the groin of the wearer without any interference of the panty elastic and the extended outwardly panel. The design provides an absorbent form fit to the labia majora and the outward walls of the labia in the groin of the wearer independent of the panty leg elastic. The panty leg elastic is protected under the absorbent and forces the outer absorbent edge into the groin. The GAP is attached to the underside of the pad and extends inwardly and thereby prevents the leg elastic from going up into the groin.

Figure 3 illustrates how a GAP pad fits to the body. In the drawing, the GAP is attached to the bottom side (baffle) of the pad and pulls the panty leg elastic under the absorbent edge. This invention does not limit the attachment of the GAP to only the bottom side (baffle) of the pad. A more preferred attachment would be the side edge of the pad or a least preferred attachment location would be the top of the pad. The critical aspect of the invention is the control placement of the panty leg elastic, whereby, the panty leg elastic is prevented from pulling up and over onto the absorbent edge.

A second critical aspect of this invention is the width of the attachment. The GAP could be attached to the top surface (cover) and wrap around the longitudinal side edge and unattach at any point and provide the panel for garment attachment. Figure 8 illustrates how a film backed laminate attaches to the cover of a pad and wraps around the wide edge. The film backed laminate provides several unique product attributes:

1. Prevents any leakage by capillary in the cross-direction of the pad.
2. Provides a flow-back barrier to the side edges of the pad.
3. The non-attached portion extends downward (8a) or transversely (8b) under the pad and provides the means to force the panty leg elastic under the absorbent pad.

Figure 4 is a cross-sectional view of a GAP pad during use whereby the outer absorbent edges are pulled downward and apply pressure to the thighs. The GAP pulls the panty leg elastic under the absorbent and thereby forces the center of the absorbent into a convex arch that fits into the labia.

Figure 5 is a longitudinal drawing that illustrates the interaction and dynamics of a pad and panty leg elastic during use. The drawing identifies some of the key forces that act on the panty leg elastic and how the forces are transmitted into the pad. In a flat pad, the pad bunches and folds at the narrowest position to the thighs. At this point, the panty leg elastic folds up and over the edge of the absorbent. (A-A). The arrows illustrate the directional force of the leg or thigh on the panty leg elastic. The pad exerts an outward force on the thighs. In the cross-sectional drawing (A-A), the panty leg elastic is allowed to pull in and overlap the absorbent. The amount of leg elastic that over-laps is dependent on crotch width, thickness of absorbent, width of crotch in panty, and tension of panty elastic.

Figure 6 is a longitudinal drawing that illustrates the interaction and dynamics of a winged pad and the panty leg elastic. Again, the thigh provides the outward force on the panty leg elastic. In the winged pad design, the outwardly extended panels are wrapped around the panty leg elastic as the panty leg elastic is pulled out, the pad is also pulled in the same direction. Therefore, as a user moves her legs back and forth, the pad moves to the direction and force of the panty leg elastic. The intensity or strength of the force increases as it moves out from the normal (a neutral force zone). The advantage of the outwardly extended panel (wings) is the panty protection from side leakage that it provides. The disadvantages are:

- 1) the pad shifts with the movement of the underwear leg elastic, and
- 2) the composite (leg elastic and panel material) add to the bulk in the crotch, but also has a tendency to fold over on top of the absorbent core.

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Figure 7 is a longitudinal drawing that illustrates how the AP pad interacts with the panty leg elastic. The drawing illustrates how the panty leg elastic is pulled under the pad and the pad is allowed to freely fit to the body of the wearer.

Key areas of the design that need to be defined:

1. Width and length of pad.
2. Length of the garment attachment panel (longitudinal length)
3. Width of GAP (% of length - preferred and most preferred)
4. Attachment of GAP
 - Location (%)
 - Width of attachment zone (% of pad and/or panel width)
5. Integrated or non-integrated to the cover and/or baffle
6. Shape of pad: barrel, rectangular, hourglass, etc.
7. GAP materials
 - Stretch vs. non-stretched
 - Fluid impervious vs. fluid pervious
 - Absorbent
8. Fastener systems

The invention that is being disclosed is an absorbent pad that incorporates panels that are attached to the pad but allow the pad to fit to the body while the panels protect and anchor the pad to the underwear.

Inventor Paul T. Van Gompel Tom Case / KCS Signed _____
Signature Dept./Location Month Day Year

Inventor Julie T. Brocker Terminine Case / KCS Signed _____
Signature Dept./Location Month Day Year

Inventor Lori S. Schramm Terminine / KCS Signed _____
Signature Dept./Location Month Day Year

Manager Review M. E. Bolick Tom Case / KCS Signed _____
Signature Dept./Location Month Day Year

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.

Corroborator David R. King Tom Case / KCS Signed _____
Signature Dept./Location Month Day Year

Corroborator Thomas Alan Tom Case / KCS Signed _____
Signature Dept./Location Month Day Year

c) How does the invention distinguish from what has been done in the past and what advantages are obtained? Identify related work done by others (patents, journal articles, etc.). Identify other related disclosures of which you may have knowledge, or other work within Kimberly-Clark Corporation in the same area. (Cont.)

U.S. Patent 4,608,047 Sanitary Napkin Attachment Mears, Mattingly W. B. - discloses a sanitary napkin that incorporates flaps that extend from each of said longitudinal edges. The improvement of this invention over existing art is the length of the flaps to allow for the flaps to overlies the outer crotch portion of the undergarment.

U.K. Patent Application GB 2,161,384 A Shaped Sanitary Napkin with Flaps, Van Tilberg. This invention discloses a feminine napkin that incorporates flaps that extend outwardly from the absorbent means and these flaps include a plurality of axes of flexibility intermediate said line of juncture and said distal edge. Our invention incorporates garment attachment panels that do not extend outwardly from the absorbent, but rather extend underneath the absorbent, and secondly, the panels have only one axis of flexibility and that is located at the location of where the flap is attached to the absorbent edge.

U.S. Patent 4,701,177 Three-Dimensional Shaped Pad with Narrow Absorbent Center and Winged Edges, Ellis Etal. Ellis discloses a shaped pad that the absorbent is narrower in the center, and it is in this location that the backing member extends beyond said absorbent forming a flap. These said flaps being gathered cause the flaps to raise. There are two basic problems with this invention:

1. The raised elastic flaps can fold in on top of the absorbent, and
 2. the panty elastic can overlap the raised edge and fold on top of the absorbent.
- In our invention, the GAP provides the force necessary to prevent the elasticized raised edge from falling in on top of the absorbent. Secondly, the GAP prevents the panty elastic from overlapping the edge and folding on top of the absorbent.

DIALOG

One search was completed on

File 351: World Patents Index, Latest 198. Two files were reviewed (file 25 and 351). Eleven patents were identified that relate to wings or flaps in feminine pads (refer to search). In this search, none of the eleven patents cited addressed what is being disclosed in this invention (a garment attachment panel attached to an elasticized raised edge of a feminine pad).

Inventor Paul T. Van Gompel San. Care / K.C. - South Signed _____
Signature Dept./Location Month Day Year
Paul T. Van Gompel

Inventor Julie T. Brocker San. Care / K.C. - South Signed _____
Signature Dept./Location Month Day Year
Julie T. Brocker

Inventor Lori S. Schramm San. Care / K.C. - South Signed _____
Signature Dept./Location Month Day Year
Lori S. Schramm

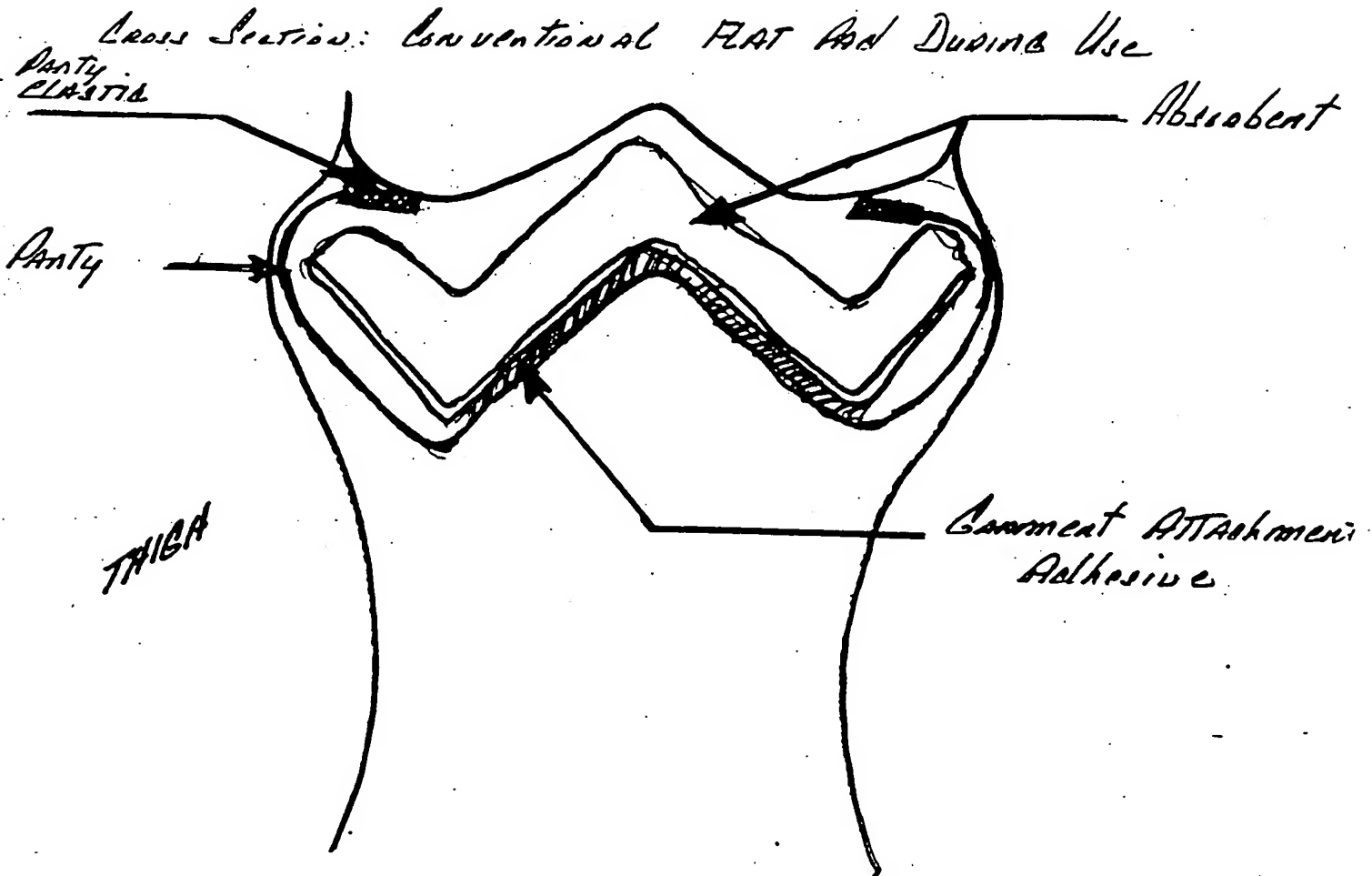
Manager Review M. E. Bolick San. Care / K-C S Signed _____
Signature Dept./Location Month Day Year
M. E. Bolick

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.

Corroborator David R. King San. Care / K.C. - South Signed _____
Signature Dept./Location Month Day Year
David R. King

Corroborator Thomas Van-Iten San. Care / K.C. - South Signed _____
Signature Dept./Location Month Day Year
Thomas Van-Iten

Figure 1.



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Inventor Paul T. Van Gompel Fem Care/KC South Signed _____
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Inventor Julie T. Brocker Fem Care/KC South Signed _____
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Inventor Lori S. Schramm Fem Care/KC South Signed _____
 Signature Dept./Location Month Day Year

Manager M. E. Bolick Fem Care/KC South Signed _____
 Review Signature Dept./Location Month Day Year

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth

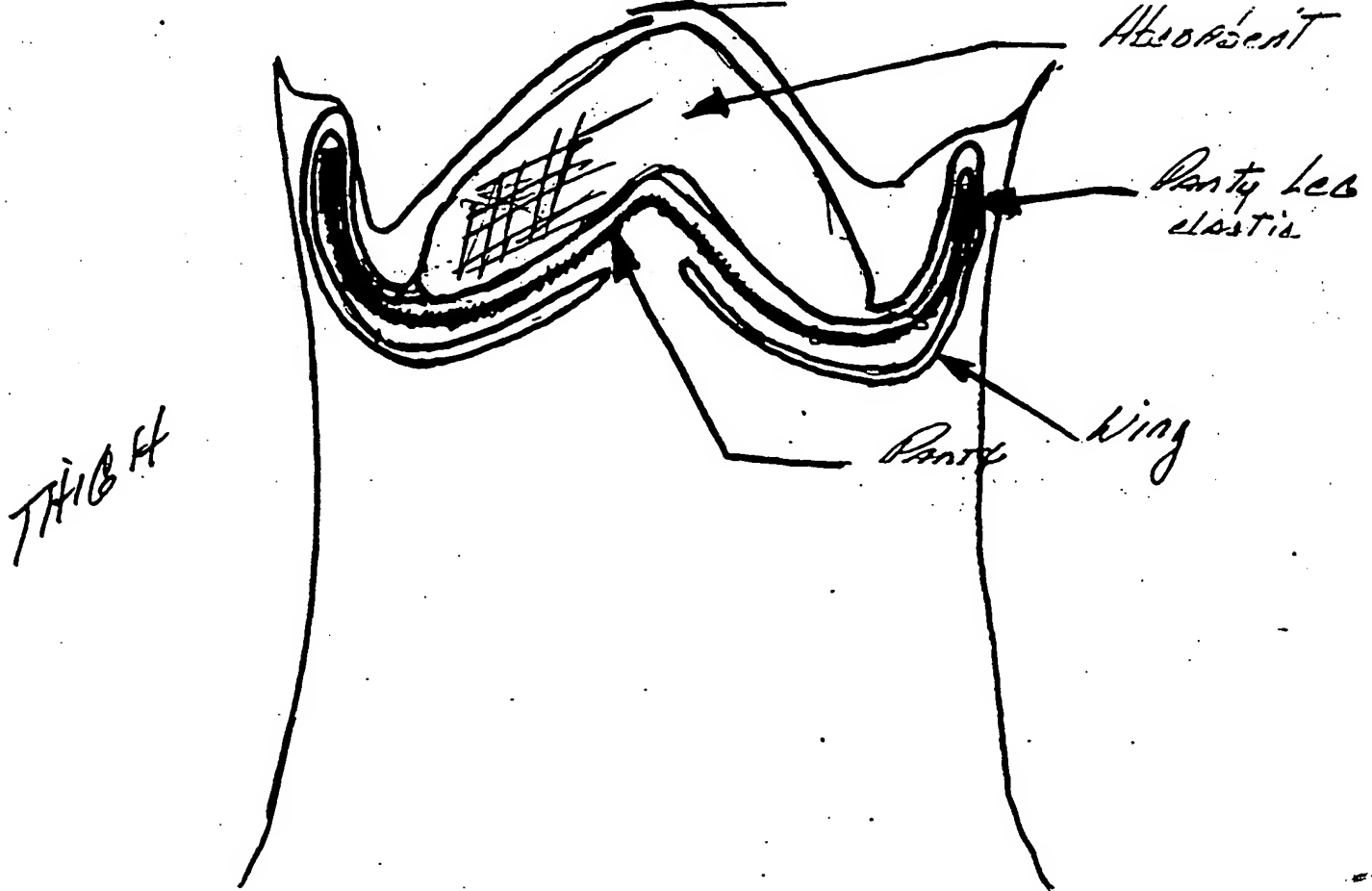
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Corroborator Thomas J. King Fem Care/KC South Signed _____
 Signature Dept./Location Month Day Year

FIGURE 2:

Cross Section: Conventional Winged And Drain Use

LAB 17



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Investigator Paul T. Van Gompel Fem Care/KC South Signed _____
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Paul T. Van Gompel

Investigator Julie T. Brocker Fem Care/KC South Signed _____
Signature Dept./Location Month Day Year

Julie T. Brocker

Investigator Lori S. Schramm Fem Care/KC South Signed _____
Signature Dept./Location Month Day Year

Lori S. Schramm

Manager/Reviewer M. E. Bolick Fem Care/KC Signed _____
Signature Dept./Location Month Day Year

M. E. Bolick

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.

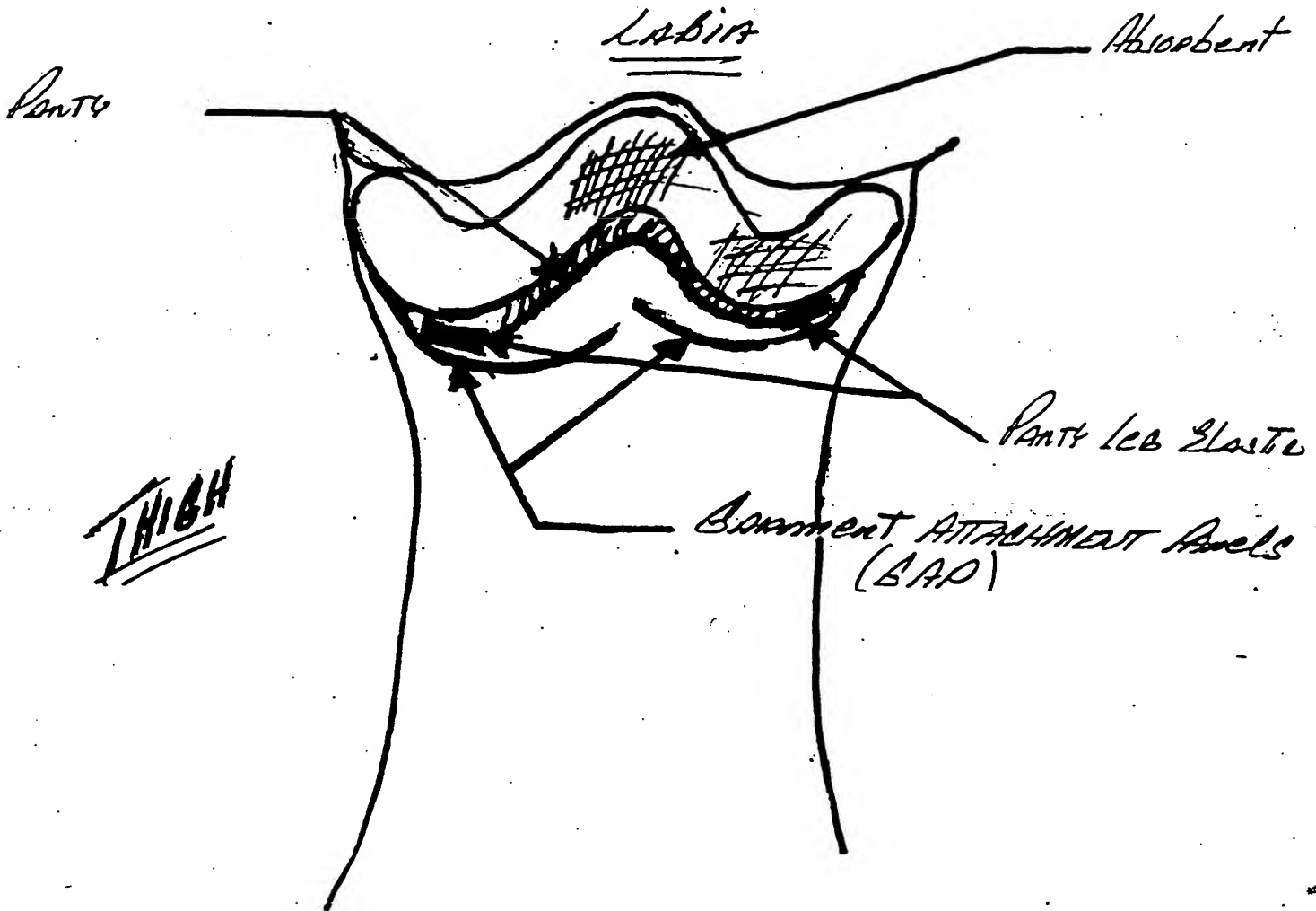
Corroborator David R. King Fem Care/KC South Signed _____
Signature Dept./Location Month Day Year

David R. King

Corroborator Thomas Schramm Fem Care/KC Signed _____
Signature Dept./Location Month Day Year

Figure 3:

Long-Sectional: GAP and During Use (Brain Fit)



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Investigator Paul T. Van Gompel Sam Case/KC Smith Signed _____
 Signature Dept./Location Month Day Year

Investigator Julie T. Brocker Sam Case/KC Smith Signed _____
 Signature Dept./Location Month Day Year

Investigator Lori S. Schramm Sam Case/KC Smith Signed _____
 Signature Dept./Location Month Day Year

Manager M. E. Bolick Sam Case/KC Smith Signed _____
 Review Signature Dept./Location Month Day Year

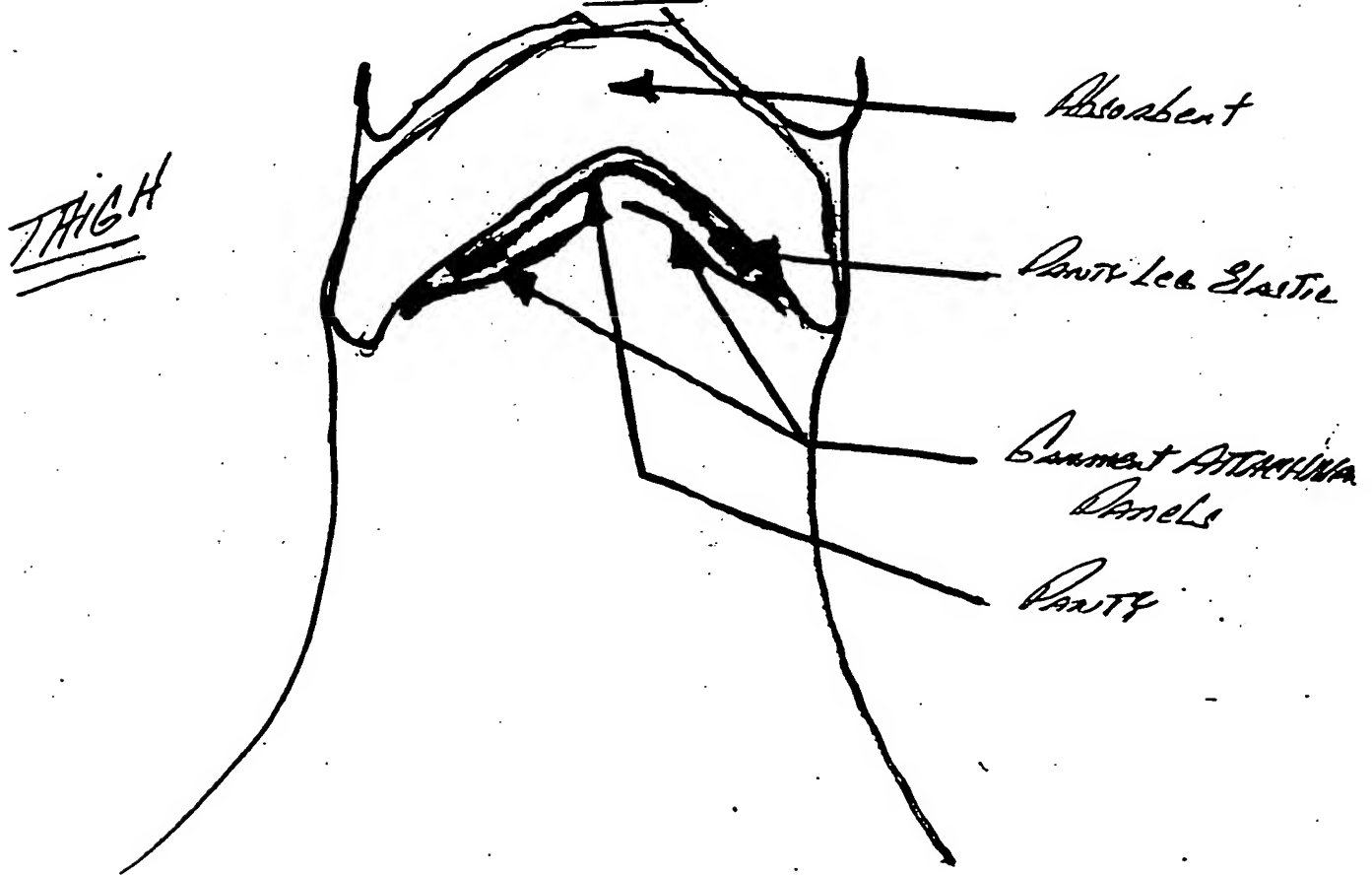
The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.

Corroborator David R. King Sam Case/KC Smith Signed _____
 Signature Dept./Location Month Day Year

Corroborator Sam Case/KC Smith Sam Case/KC Smith Signed _____
 Signature Dept./Location Month Day Year

Figure 4:

Cross-Sectional: GAD and Dividing Use (THIGH FIT)
Labia



See log Jk as a part of 9733 on

Investigator Paul T. Van Gompel San Carlos/KC South Signed _____ Month _____ Day _____ Year _____
 Signature Dept./Location

Investigator Julie T. Brocker San Carlos/KC South Signed _____ Month _____ Day _____ Year _____
 Signature Dept./Location

Investigator Lori S. Schramm San Carlos/KC South Signed _____ Month _____ Day _____ Year _____
 Signature Dept./Location

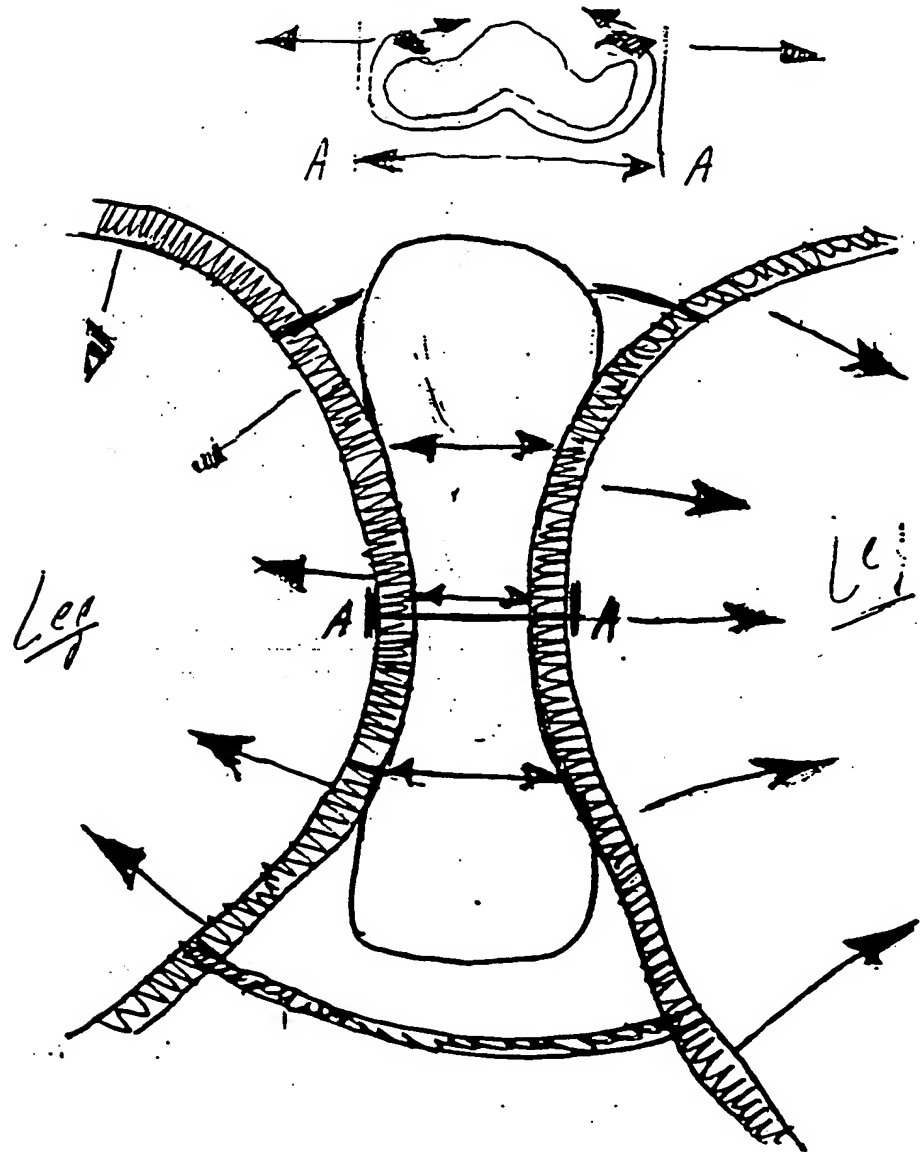
Manager Review M. E. Bollick San Carlos/KC South Signed _____ Month _____ Day _____ Year _____
 Signature Dept./Location

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.

Corroborator David R. King San Carlos/KC South Signed _____ Month _____ Day _____ Year _____
 Signature Dept./Location

Corroborator Thomas J. King San Carlos/KC South Signed _____ Month _____ Day _____ Year _____
 Signature Dept./Location

Figure 5
Interactions and deformations of a Red and Purple
cell cluster in a conventional flat well



Resub. Jh as a part of 9733 on

Investigator Paul T. Van Gompel Jan. 1973 U.S. Army Signed _____ Month _____ Day _____ Year _____
Signature Dept./Location

Investigator Julie T. Brocker Jan. 1973 U.S. Army Signed _____ Month _____ Day _____ Year _____
Signature Dept./Location

Investigator Lori S. Schramm Jan. 1973 U.S. Army Signed _____ Month _____ Day _____ Year _____
Signature Dept./Location

Manager M. E. Bolick Jan. 1973 U.S. Army Signed _____ Month _____ Day _____ Year _____
Signature Dept./Location

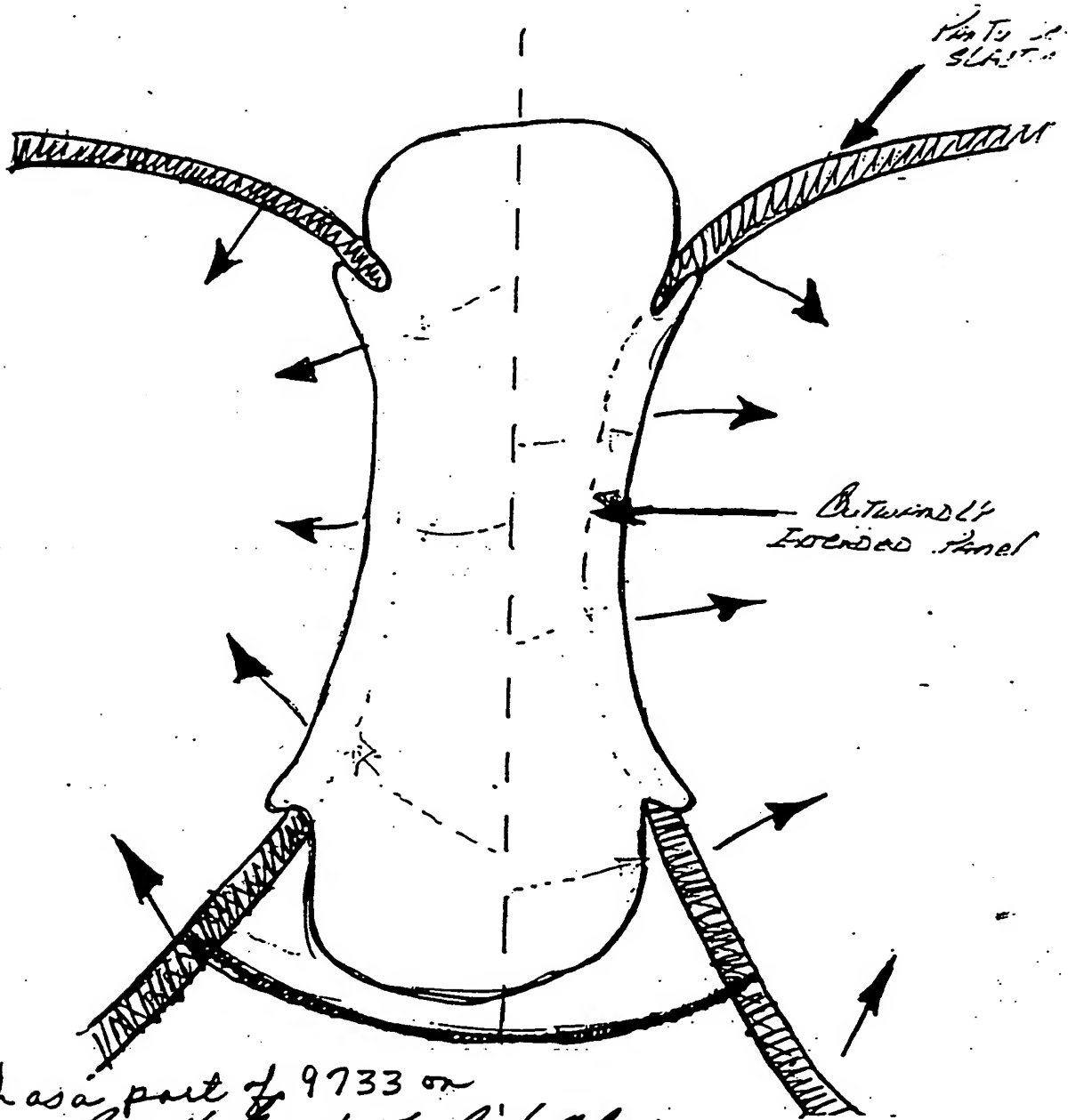
Manager M. E. Bolick Jan. 1973 U.S. Army Signed _____ Month _____ Day _____ Year _____
Signature Dept./Location

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.
Corroborator David R. King Jan. 1973 U.S. Army Signed _____ Month _____ Day _____ Year _____
Signature Dept./Location

Corroborator Thomas J. Smith Jan. 1973 U.S. Army Signed _____ Month _____ Day _____ Year _____
Signature Dept./Location

Figure 6

Interactions and dynamics of a Pad and Party
 Leo elastic in a winded Pad



Res by Jh as a part of 9733 on

Inventor Paul T. Van Gompel Tom C. Smith Signed _____
 Signature Dept./Location Month Day Year

Inventor Julie T. Brocker Tom C. Smith Signed _____
 Signature Dept./Location Month Day Year

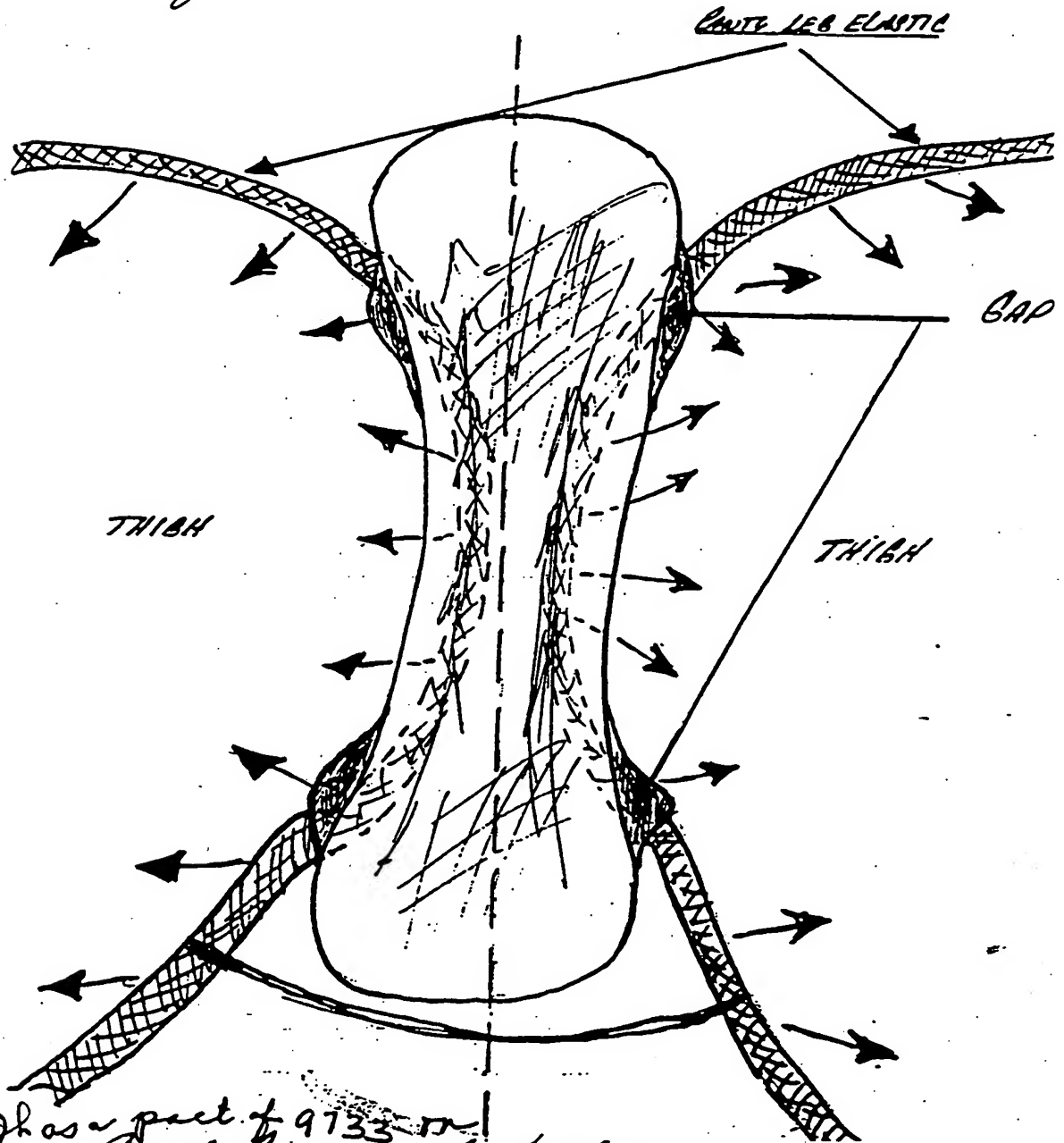
Inventor Lori S. Schramm Tom C. Smith Signed _____
 Signature Dept./Location Month Day Year

Manager M. E. Bolick Tom C. Smith Signed _____
 Review Signature Dept./Location Month Day Year

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.
 Corroborator David R. King Tom C. Smith Signed _____
 Signature Dept./Location Month Day Year

Corroborator Thomas C. Smith Tom C. Smith Signed _____

Figure
Interactions and dynamics of a pad and shank
by elastic in a GAP pad.



Rec by Jhas a part of 9733-101

Investor Paul T. Van Gompel For Core Low KCS Signed _____ Month _____ Day _____ Year _____

Investor Julie T. Brocker For Core Low KCS Signed _____ Month _____ Day _____ Year _____

Investor Lori S. Schramm For Core Low KCS Signed _____ Month _____ Day _____ Year _____

Manager M. E. Bolick For Core Low KCS Signed _____ Month _____ Day _____ Year _____

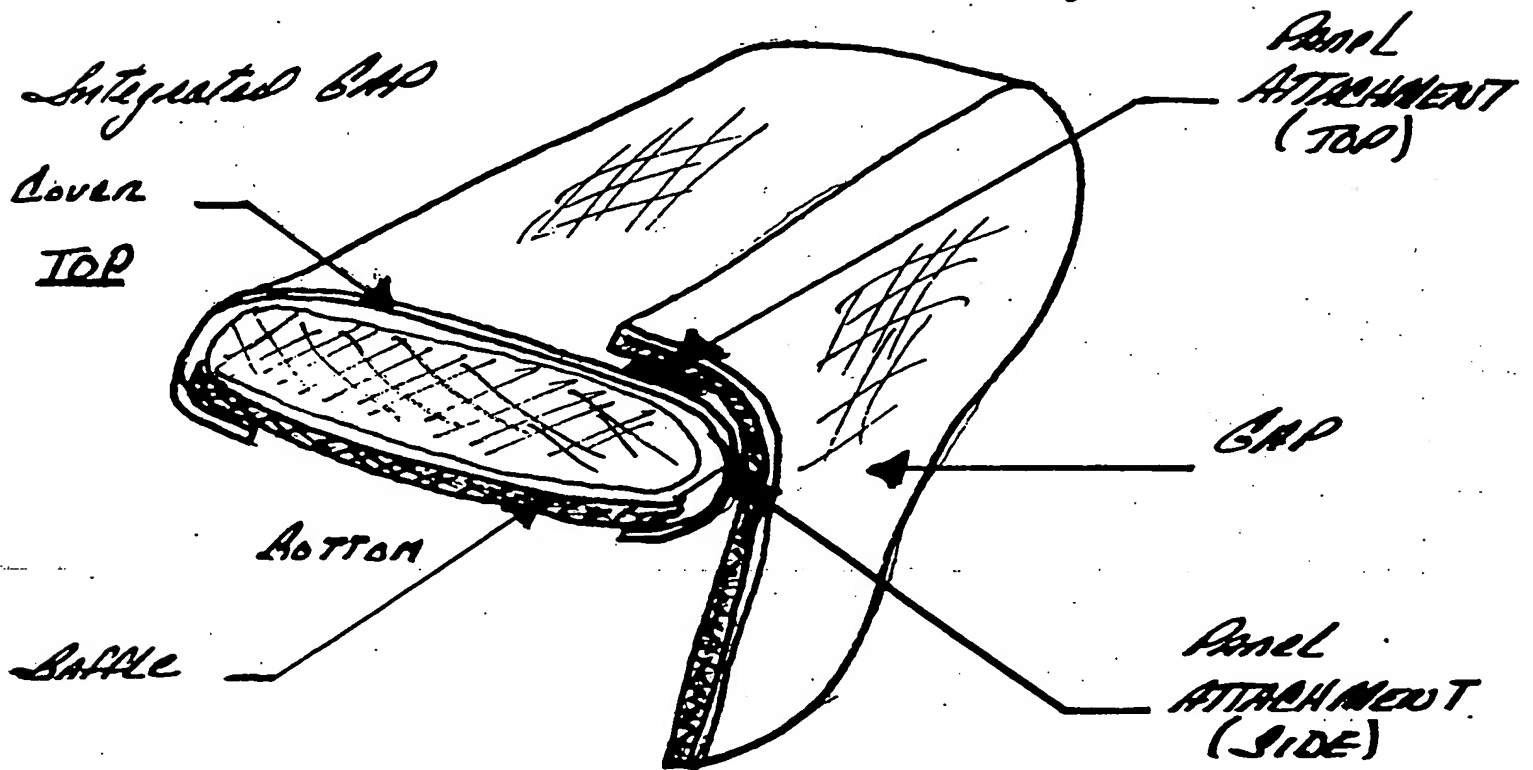
The foregoing signed disclosure was read and understood by me on the date hereinafter set forth

Corroborator David R. King For Core Low KCS Signed _____ Month _____ Day _____ Year _____

Corroborator Thomas Von Eder For Core Low KCS Signed _____ Month _____ Day _____ Year _____

Figure 8a

Cross-Section Through The Center of The Pad



Rec by Jh as a part of 9733 on

Inventor Paul T. Van Gompel Tom Carr/KC South Signed _____ month _____ day _____ year _____
Signature Dept./Location

Paul T. Van Gompel

Inventor Julie T. Brocker Tom Carr/KC South Signed _____ month _____ day _____ year _____
Signature Dept./Location

Julie T. Brocker

Inventor Lori S. Schramm Tom Carr/KC South Signed _____ month _____ day _____ year _____
Signature Dept./Location

Lori S. Schramm

Manager M. E. Bolick Tom Carr/KC South Signed _____ month _____ day _____ year _____
Signature Dept./Location

M. E. Bolick

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.

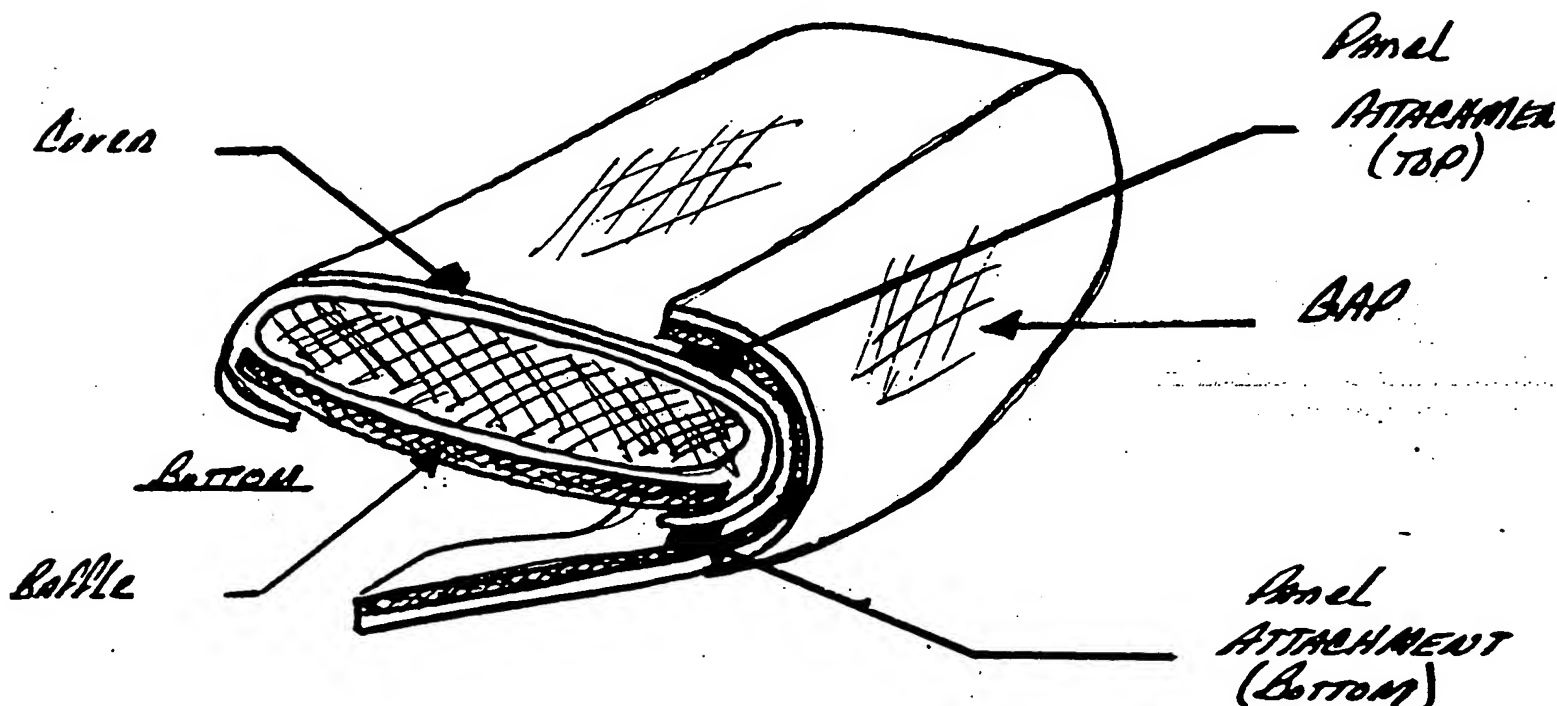
Corroborator David R. King Tom Carr/KC South Signed _____ month _____ day _____ year _____
Signature Dept./Location

David R. King

Corroborator Thomas Christie Tom Carr/KC South Signed _____ month _____ day _____ year _____
Signature Dept./Location

Figure 8b
Cross-Section Through The Center of The Pad

Integrated GAP In A
Flat Pad
Attachment to the Bottom



Rec by Jh as a part of 9733 on

Investor Paul T. Van Gompel San Jose / CA Signed Month Day Year

Investor Julie T. Brocker San Jose / CA Signed Month Day Year

Investor Julie T. Brocker San Jose / CA Signed Month Day Year

Investor Teri S. Schramm San Jose / CA Signed Month Day Year

Manager M. E. Bolick San Jose / CA Signed Month Day Year

Manager M. E. Bolick San Jose / CA Signed Month Day Year

The foregoing signed disclosure was read and understood by me on the date hereinafter set forth.

Corroborator David R. King San Jose / CA Signed Month Day Year

Corroborator Teri S. Schramm San Jose / CA Signed Month Day Year

EXHIBIT B

Paul T. Van Gompel et al., Serial No. 10/005,522, filed December 3, 2001

Claims 35-44 filed December 3, 2001

Claim 35. A sanitary napkin for mounting onto the bodyside of a crotch portion of an undergarment, and, during use, absorbing bodily excretions, comprising:

an elongated absorbent pad having a longitudinal axis, a longitudinally extending central portion and opposite longitudinal side edges, said side edges being deflectable with respect to said central portion, and including an absorbent contained between a bodyside, liquid-permeable cover and a garment side, liquid-impermeable baffle; and

control means for selectively controlling deflection of said side edges during use, said control means being anchorable under said crotch portion of said undergarment, said anchoring establishing a generally downward pull on said side edges and preventing said side edges from folding in toward said absorbent, wherein said control means comprises first and second opposite garment attachment panels, extending generally downward and inward from an underside of said absorbent pad adjacent to said side edges; and

wherein said garment attachment panels include a fixed portion attached to the underside of said absorbent pad toward said side edge and a free portion diverging from the underside of said absorbent pad for, during use, extending under said crotch portion of said undergarment, wherein a garment attachment point is defined where said fixed and said free portions meet each other; and

including means for anchoring said free portions of said garment attachment panels so as to establish a predetermined deflection of said side edges and to facilitate accurate mounting of said sanitary napkin on said undergarment, and

wherein said means for anchoring said free portions of said garment attachment panels comprises mating fastener elements, one on each of said garment attachment panels, said fastener elements being configured as to provide anchoring means, on one of said garment attachment panels, in a width of from about 0.25 to about 1.0 inches; and to provide anchoring means, on the other of said garment attachment panels, in a width of from about 0.25 to about 3.0 inches.

Claim 36. The sanitary napkin of claim 35, wherein the predetermined deflection of said side edges and the predetermined particular confinement of said side edges of said crotch portion of said undergarment biases said absorbent pad into an upwardly convex form, closely fitting the body.

Claim 37. The sanitary napkin of claim 35, wherein said absorbent is longitudinally extending and has opposite longitudinal side edges and the deflectable side edges of the absorbent pad normally extend generally laterally with respect to said absorbent and, during use, the anchoring of said garment attachment panel configures said sanitary napkin so that each side edge of said crotch portion of said undergarment is supported approximately no higher than a side edge of said absorbent.

Claim 38. The sanitary napkin of claim 35, wherein the lateral disposition of said fixed portion of said garment attachment panel and the anchoring of said garment attachment panel configure said sanitary napkin so that each side edge of said crotch portion of said undergarment is supported approximately beneath a side edge of said absorbent and said absorbent is free to conform to the body of the user.

Claim 39. The sanitary napkin of claim 35, wherein said fixed portions of said garment attachment panels are disposed so that each side of said crotch portion of said undergarment is restrained adjacent to a side edge of said absorbent pad and prevented from overlaying said absorbent pad.

Claim 40. The sanitary napkin of claim 35, wherein said side edges of said absorbent pad have a lateral periphery and said absorbent has a longitudinally extending lateral side contiguous with said side edge and said garment attachment panels have an inner attachment lateral limit from which said free portion of said garment attachment panel diverges and said inner lateral limit is disposed between said lateral side of said absorbent and said lateral periphery of said side edge of said absorbent pad.

Claim 41. The sanitary napkin of claim 35, wherein said cover and said baffle extend laterally beyond said absorbent to define said side edges and wherein said garment attachment panels are secured to said baffle outwardly of said absorbent.

Claim 42. The sanitary napkin of claim 35, wherein said side edges, said cover and said baffle are bonded together to form an edge seal.

Claim 43. The sanitary napkin of claim 35, wherein at least one of said cover and said baffle extend laterally beyond said absorbent to define said side edges.

Claim 44. The sanitary napkin of claim 42, wherein said garment attachment panels are attached to the side of said edge seal on which the baffle is located.